

Program Description/Textbook or Print Instructional Material

Vendor: Delmar Learning Web Address: www.delmar.com

Title: Automotive Technology: A Systems Approach

Author: Erjavec Copyright: 2000

ISBN: 0-7668-0673-1 Course/Content Area: Vocational and Career Education; Industrial Technology; Automotive Technology

Intended Grade or Level: 9-12 Readability Level: 10.8 (Flesch Kincaid)

List Price: 86.95 Lowest Wholesale Price: 64.50

All materials bid as of July 1, 2003 must be offered in an alternative format for students who require reading accommodations. A description of the levels of accommodation is included on p. 8-9 of this bid packet. The Kentucky Department of Education must receive a copy of the alternative format if the material is placed on the State Multiple List.

Level of Accommodations (Level One, Two or Three) Level Three

If Level Two or Three, please provide rationale for not meeting Level One Compliance It is not financially feasible for our products to meet Level One at this time.

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

- Latest regulations on hazardous materials, waste handling, and disposal
- Expanded coverage of diagnostic techniques and procedures for all systems
- Expanded coverage of diagnostic equipment, including scan tools and lab scopes.
- New format for the air conditioning section including a separate chapters on theory and diagnostics/service

Student Experiences

- Lively, step-by-step photo sequences demonstrate repair procedures for easier retention
- Case Studies emphasize logical troubleshooting methods
- Shop Talk and Customer Care boxes offer practical advice

Assessment

This comprehensive textbook covers the theory of operation, diagnostics, and repair procedures for each system and subsystem of late model domestic and imported automobiles and light trucks. The new edition is published in full color for the first time, including all new step-by-step photo sequences to help users visualize and identify common repair procedures. The technical content has been both updated and improved. An emphasis is placed upon providing the best possible coverage of key topics virtually all automotive technicians must know electricity-electronics, engine performance, steering and suspension and

brakes. "Hot Topics" such as the use of diagnostic equipment (including lab scopes), hazardous materials management, OBDII, electronic automatic transmissions, anti-lock braking systems, air-conditioning refrigerants and retrofitting, passive restraint systems and many others have been expanded and updated.

Organization

- This textbook is also accompanied by an extensive Tech Manual that includes an all-new electronic study guide.
- New format for the engine performance sections includes separate chapters on theory and diagnostics/service

Resource Materials

Gratis Items To Be Provided And Under What Conditions

Instructor's Resource Kit (0-7668-0701-0) Free 1 per teacher

Available Ancillary Materials

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education.

NOTE: Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate "**not available**" in the space.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool IT Transportation Career Cluster



Title: Automotive Technology A System Approach \$64.50

Publisher: Delmar

Item Evaluated: Textbook & Instructor's Resource

Copyright Date:2000/2004

Evaluator: Wilson/Tomlinson

Content Level:9-12

Date of Evaluation 7/30/03

Level of Alternative Format

Level 1 – Full Compliance

Level 2 – Provisional Compliance

Level 3 – Marginal Compliance

This section completed by Exceptional Children Services

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book, material or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions . They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/ Instructional Materials Review Team completed each evaluation form during the week of July 28-Aug. 1, 2003. In order to maintain the integrity of the of the review team's comments, editing was limited to spelling and punctuation.

Recommendations:

☒ Recommended by reviewers to State Textbook Commission

☐ Not recommended by reviewers to State Textbook Commission

Publisher's Explanation of Reviewer's Comments: By action of the State Textbook Commission, publishers are provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the evaluation.



**Group V - Career/Technical
Vocational/Practical Living Education
Instructional Materials Evaluation Tool
IT Transportation Career Cluster**



Title: Automotive Technology A System Approach	Publisher Delmar	
Technology Management Summary Data:	20 possible points	_____18_____ points earned
Technology Management Comments:		
Technology Presentation/Interface Summary Data:	36 possible points	_____30_____ points earned
Technology Presentation/Interface Comments:		
Content Summary Data:	84 possible points	_____43_____ points earned
Content Comments:		
Instruction & Management Summary Data	52 possible points	_____46_____ points earned
Instruction & Management Comments:		
Organization & Structure Summary Data	36 possible points	_____35_____ points earned
Organization & Structure Comments:		
Resource Material Summary Data	40 possible points	_____22_____ points earned
Resource Material Comments:		



Group V - Career /Technical & Vocational/Practical Living Electronic Instructional Media Review Form



Stand Alone/Independent or Integrated Software for IT Transportation Career Cluster

Equipment (circle or change fill color)	Grade Level (circle or change fill color)	Audience (circle or change fill color)	Format (circle or change fill color)	Cost _____	
Windows	Primary	Individual	Stand Alone/Independent	_____ single copy	_____ site license
Macintosh	Intermediate	Small Group	Integrated	_____ network version	_____ school version
CD-ROM	Middle	Large Group	Supplemental	_____ lab pack of _____ copies	_____ online
DVD	High		In lieu of basal test		
Sound					
Other					

If other, explain _____

Type of Software: Check all that apply	___x___ Simulation	_____ Management	_____ Interdisciplinary	_____x___ Problem Solving	___x___ Tutorial
_____ Exploratory	_____ Creativity	___x___ Drill and Practice	___x___ Critical Thinking	_____ Utility	_____ Other:

Rating Scale:	3—Some of the time	1—None of the time
4—All or the time	2—Minimally	0— Not applicable

Management	Rating
Allows customizing for individual learning needs.	3
Allows students to exit and resume at a later time.	4
Keeps a students performance record, where needed.	4
Allows control of various aspects of the software (e.g., turning sound off).	3
Allows for printed reports.	4
Comments:	Total
	18

Presentation/Interface	Rating
Presents material in an organized manner.	4
Has consistent, easy-to-use, on-screen instructions.	3
Has developmentally correct presentation format.	3
Adapts to different learning environments (learning styles/multiple intelligences, etc.)	3
Accessible for special needs students.	2
Runs smoothly, without long delays.	3
Presents easy-to-view text and graphics.	3
Presents easy-to-hear and understand sounds.	3
Avoids unnecessary screens, sounds, and graphics.	3
Provides immediate, appropriate feedback.	3
Comments:	Total
	30

Content—IT Transportation Career Cluster	Rating
Brake Systems/Lab	4
Automatic Transmission/Lab	4
Manual Transmission/Lab	4
Engine Repair/Lab	4
Computer Systems & Diagnosis/Lab	3
Basic Automotive Electronics/Lab	4
Electrical Systems/Lab	4
Introduction to Auto Body	0
Industrial Safety	4
Painting and Refinishing/Lab	0
Non-Structural Analysis and Damage Repair/Lab	0
Structural Analysis and Damage Repair/Lab	0
Mechanical Concepts	4
Fluid Power/Lab	4
Fuel Injection/Lab	4
Introduction to Small Engine Repair	0
Basic Small Engine Theory/Lab	4

Instruction and Assessment	Rating
Identifies a Sense of Purpose	3
Builds on Student Ideals	3
Engages Students	4
Develops Computer Maintenance Ideas	0
Promotes Student Thinking	4
Assesses Student Progress	4
Enhances The Learning Environment	4
Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.	4
Commonwealth Accountability Testing System (CATS) "like" Assessment is provided	4
Variety of Assessments (diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer performance, portfolio prompts) is included.	4
Includes activities and opportunities for integration of technology.	4
Reflects researched-based practices (e.g. hands-on activities, technology, problem-solving situations)	4
Differentiation techniques and activities suggested.	4
Comments:	Total 46

Rating Scale:	3 – Some potential for learning	1 - Not present
4 – High potential for learning	2 – Little potential for learning	0 – Not applicable

Organization and Structure	Rating
Organization is logical and allows for spiraling of content.	4
Vocabulary and key terms are clearly defined and easily accessible within each lesson.	4
Visual illustrations (e.g. graphs, charts, models) and examples are clearly presented and content-related.	4
Illustrations and language reflect diversity (e.g. racial, ethnic, cultural, age, gender, disabilities).	3
Legible type, length of lines, spacing, and page layout and width of margins contribute to overall appearance and use.	4
Student materials seem durable and conducive to daily use.	4
Includes sufficient glossary, index and appendices.	4
Employs accurate grammar and spelling	4
Organization of material can be effectively used with Standards Based Units, Core Content and Program of Studies.	4
Comments:	Total 35

Resource Materials	Rating
Teacher materials coordinate easily with student materials (e.g. additional resources included at point of need, student pages shown, integration of technology indicated)	4
Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.	4
Extension activities including adaptations and accommodations for students with special needs.	3
Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections with career and/technology and references (e.g. solution manuals, study guides)	3
Suggestions are made for integration of themes and /or interdisciplinary instruction.	2
Integration opportunities suggested and examples given.	2
Teacher resources are available online.	1
Online resources available – Repeat of information in text.	1
Online resources available – Practice skills only.	1
Online resources available – New application materials.	1
Comments:	Total 22
Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable